

Claims

1. HF connector for connecting a coaxial plug
connector (38) to an HF transmission line on a circuit
5 board (32), characterised in that the HF connector has at
least a first pair of sprung blades (12, 14) arranged and
designed for electrically contacting a central conductor
(40) of the coaxial plug connector (38), and at least a
second pair of sprung blades (16, 18) arranged and designed
10 for electrically contacting an outer conductor (42) of the
coaxial plug connector (38), whereby at least one sprung
blade (12, 14) of the first pair has, on an end facing away
from the coaxial plug connector (38), a contact surface
(24) for electrically connecting the HF connector to the HF
15 transmission line on the circuit board (32) and for
mechanical connection with the circuit board (32) and at
least one sprung blade (16, 18) of the second pair has, on
an end facing away from the coaxial plug connector (38), a
contact surface (22, 26) for electrically connecting the HF
20 connector to a chassis contact on the circuit board (32)
and for mechanical connection with the circuit board (32).

2. HF connector according to claim 1, characterised in
that the contact surfaces (22, 24, 26) of the sprung blades
(12, 14, 16, 18) are arranged in a plane parallel to the
25 circuit board (32).

3. HF connector according to claim 1 or 2,
characterised in that the coaxial plug connector (38) has a
housing feed-through section for a housing (34) surrounding
the circuit board (32).

30 4. HF connector according to at least one of the
preceding claims, characterised in that all the sprung
blades (12, 14, 16, 18) extend in one plane parallel to the
circuit board (32).

5. HF connector according to at least one of the preceding claims, characterised in that the sprung blades (12, 14) of the first pair are designed in one piece in the region of the contact surface (24).

5 6. HF connector according to at least one of the preceding claims, characterised in that the sprung blades (12, 14 or 16, 18) of a pair are angled away from each other at their end facing towards the coaxial plug connector (38).

10 7. HF connector according to at least one of the preceding claims, characterised in that it has a housing (10) which carries all the sprung blades (12, 14, 16, 18).

8. HF connector according to claim 7, characterised in that the housing (10) is designed as a planar component.

15 9. HF connector according to claim 7 or 8, characterised in that the housing (10) has at least one peg (28) which extends away from the housing (10) for engaging in the circuit board (32).

10. HF connector according to claim 9, characterised
20 in that the peg (28) is designed for engaging in a hole (30) in the circuit board (32), whereby the peg (28) has at least one detent lug (52) which extends in the radial direction in relation to the peg (28), beyond its outer periphery, wherein the detent lug (52) is designed and
25 arranged on the peg (28) such that the outer periphery of the peg (28) is smaller in the region of the detent lug (52) than the diameter of the hole (30) in the circuit board (32), whereby the outer periphery of the section of the peg (28) protruding into the hole (30) in the circuit
30 board (32) is designed such that between the outer periphery of this section and the inner wall of the hole (30) in the circuit board (32), over at least a portion of the outer periphery there is an intermediate space with

capillarity for solder, such that solder situated on the surface of the circuit board (32) during a soldering procedure penetrates by capillary action into the intermediate space, filling it.

5 11. HF connector according to claim 10, characterised in that the detent lug (52) is designed and arranged on the peg (28) such that with the component fully inserted into the circuit board (32), the detent lug (52) is arranged within the hole (30) in the circuit board (32).

10 12. HF connector according to claim 10 or 11, characterised in that the periphery of the peg (28) in the longitudinal direction over the whole section situated in the hole (30) in the circuit board (32) is designed with at least one cut-out (54).

15 13. HF connector according to at least one of the claims 10 to 12, characterised in that the hole (30) in the circuit board (32) is metallised.

 14. HF connector according to at least one of the claims 7 to 13, characterised in that the housing (10) has
20 a cut-out (20) into which the free ends of the sprung blades (12, 14, 16, 18) which face towards the coaxial plug connector (38) extend.